

What's new in Unpacking



- ❖ +00.81.00 includes the new unpacking schema, where the unpacking infrastructure is separated from the detector specific unpacking routines. Individual subdetector groups are now responsible for making sure the (un)packing code works for their modules.
- ❖ Modules are created by a factory according to the type and mode of the requested module. The module knows how to unpack itself.
- ❖ Initialization of the run configuration is handled by the framework, so it can only be initialized once.



Status of Unpacking in t00.81.00



◆ Packages in this release:

- unpack_base v00-01-03
- unpack_mrc v00-01-00
- unpack_vrb v00-01-01
- unpack_cal_fe v00-01-03
- unpack_muo_fe v00-01-01
- unpack_svx_fe v00-02-03
- unpack_ft_11 v00-01-01
- unpack_muo_11 ???
- unpack_reco v00-02-01
- unpack_evt v00-04-01
- run_config_mgr v00-01-04
- l3run_config v00-00-03



Organization



UNPACKING INFRASTRUCTURE	
unpack_base	Mike Fortner Charles Leggett
unpack_mrc	
unpack_vrb	
run_config_mgr	Charles Leggett
l3run_config	
DETECTOR SPECIFIC	
unpack_svx_fe	Robert Illingworth, Kin Yip Ela Barberis (SC)
unpack_muo_fe	Paul Balm, Mike Fortner Pushpalatha Bhat (SC)
unpack_cal_fe	Charles Leggett Volker Buescher (SC)
unpack_muo_l1	Freedy Nang Mike Fortner (SC)
unpack_ft_l1	Kin Yip Levan Babukhadia





Organization



UNPACKED AND RAW DATA GENERATION

unpack_reco
unpack_evt

Mike Fortner
Charles Leggett



What's Working



◆ Unpacking that's been demonstrated to work:

- Calorimeter
 - ★ CalDataChunk -> UnpDataChunk via calunpdata
 - ★ CalDataChunk->RawDataChunk->L3 unpacking via l3tCallUnpTool
 - Problem: won't work on NT as uses geometry.
 - in the process of separating RawDataChunk generation from the L3 tool
- Muon
 - ★ L3TMuoUnpack
 - ★ L3TMuoUnpackTimes (unpacking tool that doesn't use geometry)
 - ★ L3TMuoLocal (local tracking code)
 - will appear as a bug fix release in t81
- SMT
 - ★ l3fsmtunptool: L3 unpacking
 - ★ smt_examine



Raw Data Chunks



- ◆ A beta version of the PackReco code is in CVS as part of the unpack_reco package.
- ◆ SMT - using SmtData2RawUnp from smt raw package to generate UDC
- ◆ Muon system - using MuoMCToUnpReco from muo_unpdata to generate UDC (PDT channels only so far).

